Ō	
0	
3	
0_	
0	
5	
_	



INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Docket Number	Application Number
032028-0311034	09/840,080
Applicant(s)	
James H. JOHNSON	et al.
Filing Date	Group Art Unit
April 24, 2001	3621

Form PTO-1449

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIAT
	Α	5,773,828	06/30/1998	Akiyama et al.	250	- 345 -	
	 ^	0,170,020	0010011000	Thirty action			
	-					-	}
						.	<u> </u>
		··					
							
						 	
				<u> </u>			
	<u> </u>						
	<u>l</u>						<u> </u>
						12	
	†						
	 			<u> </u>		· ·	
	 						
	L					_	
	<u> </u>						
	t —						
	\vdash			 			†
	ļ			ļ			

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS Trans		ntions NO
							[

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	PEREZ-DIAZ, Jose-Luis, et al., "Infrared Absorption Device for Analysis of Exhaust Gases from Moving Vehicles", Part of the EUROPTO Conference on Spectroscopic Atmospheric Environmental Monitoring Techniques, <u>SPIE</u> , Vol. 3493, September 1998, pages 178-183, XP-002345234.

EXAMINER		
(<u></u>	

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP/Section 609; Draw line throug citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no personal section of Information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of 2

Complete If Known					
Application Number	09/840,080				
Filing Date	April 24, 2001				
First Named Inventor	James JOHNSON et al.				
Group Art Unit	3621				
Examiner Name	Unknown				
Attorney Docket Number	23439-030-402				

			U.S. PATENT DOCUM	MENTS		
		U.S. Petent Document	Name of Patentee or Applicant	Date of Publication of	Peges, Columns, Lines, Where Relevant	
Examiner Initials *	Cite No.1	Number Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	
ノ	US1	3,593,023	Dodson, et al.	07-13-1971		
N,	US2	3,696,247	McIntosh, et al.	10-03-1972		
70	US3	3,743,426	Steinberg	07-03-1973		
N	US4	3,908,167	Huits, et al.	09-23-1975		
N	US5	3,957,372	Jowett, et al.	05-18-1978	DEG	
1	US6	3,958,122	Jowett, et al.	05-18-1976	n c	FIVEN
1	US7	3,973,848	Jowett, et al.	08-10-1976		EIVED'
10	US8	4,160,373	Fastaia, et el.	07-10-1979	JUL	1 2000
m	US9	4,390,785	Faulhaber, et al.	06-28-1983		1 2003
N	US10	4,480,191	Karpowycz	10-30-1984	GRAU	l -
1	US11	4,490,043	Cramp	12-25-1984	.41100	P 3660
N	US12	4,544,273	Berndt	10-01-1985		
2	US13	4,560,873	McGowan, et al.	12-24-1985		
MI	US14	4,663,961	Nelson, et al.	05-12-1987		
	US15	4,719,360	Kontani, et al.	01-12-1988		. ·
	US16	4,746,218	Lord, III	05-24-1988		
~	US17	4,765,961	Schiff, et al.	08-23-1988]
~	US18	4,795,253	Sandridge, et al.	01-03-1989		
	US19	4,810,884	Carlson	03-07-1989]
	US20	4,818,705	Schneider, et al.	04-04-1989		
~	US21	4,829,183	McClatchie, et al.	05-09-1989		
~	US22	4,924,095	Swanson, Jr.	05-08-1990]
$\overline{\mathcal{N}}$	US23	4,990,780	Lee, et al.	02-05-1991		
N	US24	4,999,498	Hunt el al.	03-12-1991]
1	US25	5,060,505	Tury, et al.	10-29-1991]
	US26	5,099,680	Fournier, et al.	03-31-1992		
~	US27	5,105,651	Gutmann	04-21-1992		<u> </u>
1	US28	5,129,257	'Carduner, et al.	07-14-1992		
~	US29	5,184,017	Tury, et al.	02-02-1993]
1/	US30	5,210,702	Bishop, et al.	05-11-1993]
~,	US31	5,246,868	Busch, et al.	09-21-1993		<u> </u>
1	US32	5,252,828	Kert, et al.	10-12-1993		<u> </u>
~1,	US33	5,306,913	Noack, et al.	04-26-1994		1
N,	US34	5,319,199	Stedman, et al.	06-07-1994		
7	US35	5,332,901	Eckles, et al.	07-28-1994		1
X	US36	5,343,043	Johnson	08-30-1994		1
1	US37	5,371,367	DiDomenico, et al.	12-06-1994		1
N	US38	5,373,160	Taylor	12-13-1994		1
//	US39	5,388,373	Keeler, et al.	01-31-1995		1
V	US40	5,401,967	Stedman, et al.	03-28-1995		1
	US41	5,418,366	Rubin, et al.	05-23-1985		1
~	U\$42	5,451,787	Taylor	09-19-1995		1
~	US43	5,489,777	Stedman, et al.	02-06-1996		1
w	US44	5,498,872	Stedman, et el.	03-12-1998		4
1	US45	5,572,424	Kellogg, et al.	11-05-1996		1
7/	US46	5,583,765	Kleehammer	12-10-1996		J





· Please type a plus sign (+) inside this box

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Substitute for form 1449A/PTO Complete if Known **Application Number** 09/840,080 INFORMATION DISCLOSURE April 24, 2001 Filing Date STATEMENT BY APPLICANT First Named Inventor James JOHNSON et al. **Group Art Unit** 3621 (use as many sheets as necessary) **Examiner Name** Unknown of 2 23439-030-402 Sheet **Attorney Docket Number**

					_
		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS JUL	1	1 7	O
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume is a number(s), publisher, city and/or country where published.	Y	P.	3
N	P1	Technical Proposal — "Vehicle Inspection Instrumentation"; submitted to California Air Resources Board; September 1, 1971, Lockheed Palo Aito Research Laboratory, Lockheed Missiles & Space Company – A Group Division of Lockheed Aircraft Corporation, Palo Alto, California			
N	P2	HOSHIZAKI, et al., Final Report — "Vehicle Inspection Instrumentation"; submitted to California Air Resources Board; June 1973, Lockheed Palo Alto Research Laboratory, Lockheed Missiles & Space Company – A Group Division of Lockheed Aircraft Corporation, Palo Alto, California			
N	Р3	http://www.epa.gov/otag/15-remot.htm; "Remote Sensing: A Supplemental Tool for Vehicle Emission Control," August 1993, EPA 400-F-92-017, Fact Sheet OMS-15; 4 pages			
~	P4	LUCIEN W. CHANEY, "The Remote Measurement of Traffic Generated Carbon Monoxide, APCA Note-Book," Journal of the Air Pollution Association; Copyright 1983; 3 pages			
N	P5	PAUL STOCKWELL, "Tunable Diode Laser Systems Break New Ground in Water Vapour Analysis"; IMA Ltd., Unit Newall Hall Park, Otley, West Yorkshire, United Kingdom; [undated]; 8 pages			
~	P6	MARK G. ALLEN, *Diode Laser Absorption Sensors for Gas Dynamic and Combustion Flows,* Copyright 1998 Measurement Science and Technology 9; 61 pages			
~~	P7	KERRY L. SWAYNE, *Infrared Remote Sensing of On-Road Motor Vehicle Emissions in Washington State,* March, 1999, Air Quality Program, Washington State Department of Ecology, Washington; Publication #99-204; 20 pages			
~	P8	GARY A. BISHOP, et al., "IR Long-Path Photometry: A Remote Sensing Tool for Automobile Emissions," 1989; reprinted from Analytical Chemistry, 61. 671A; 1989; 6 pages			
~	P9	GARY A. BISHOP, et al., "Oxygenated Fuels, A Remote Sensing Evaluation," SAE Technical Paper Series; Copyright 1989 Society of Automotive Engineers, Inc.; 7 pages			
N	P10	ROBERT D. STEPHENS, "Remote Sensing Data and a Potential Model of Vehicle Exhaust Emissions," November 1994, Vol. 44, Journal of Air & Waste Management Association, pp. 1284-1292			
N	P11	"An Analysis of On-Road Remote Sensing as a Tool for Automobile Emissions Control," Final Report Prepared by University of Denver Chemistry Department, Colorado, March 1990; 174 pages; prepared for Illinois Department of Energy and Natural Resources			
N	P12	ROBERT D. STEPHENS, et al., "Remote Sensing Measurements of In-Use Vehicle Carbon Monoxide and Hydrocarbon Exhaust Emissions," Environmental Science Department, Michigan, to be presented to Society of Automotive Engineers Government/Industry Meeting, Washington, D.C., May 15, 1991; 9 pages			
~	P13	THOMAS C. AUSTIN, et al., "An Evaluation of "Remote Sensing" for the Measurement of Vehicle Emissions," prepared for The California Air Resources Board and The California I/M Review Committee, August 28, 1990, 30 pages; prepared by Sierra Research, Inc., California			
~	P14	ROBERT D. STEPHENS, et al., "Remote Sensing Measurements of Carbon Monoxide Emissions from On-Road Vehicles," Copyright January 1991, Air & Waste Management Association, Volume 42, No. 1, pp. 39-48			
~	P15	DONALD H. STEDMAN, et al., "Remote Sensing of On-Road Vehicle Emissions," Final Report to Coordinating Research Council, The University of Denver, January 6, 1992, 21 pages			
N	P16	PETER POPP, et al., "Development of a High-Speed Ultraviolet Spectrophotometer Capable of Real-Time NO and Aromatic Hydrocarbon Detection in Vehicle Exhaust," Department of Chemistry, University of Denver, Colorado, Prepared for Proceedings of the 7th CRC On-Road Vehicle Emissions Workshop, San Diego, California, April 9-11, 1997; 10 pages			
~	P17	JOHN DIDOMENICO, et al., "Preliminary Results from Cold Start Sensor Testing," Presented to 7th CRC On-Road Vehicle Emissions Workshop, San Diego, California April 9-11, 1997; 1 page			
v	P18	GARY A. BISHOP, et al., "Enhancements of Remote Sensing for Vehicle Emissions in Tunnels," Air & Waste Management Association, Vol. 44, February 1994, pp. 169-175			

/ -1	11047 T	5,589,629	0.55	40.24.4000	70 2
	US47		Quinn	12-31-1986	
✓.	US48	5,591,975	Jack, et al.	01-07-1997	ME A O SORE E
//	US49	5,621,168	Butter	04-15-1997	
~	US50	5,644,133	Didomenico, et el.	07-01-1997	3
\sim	US51	5,693,872	Quinn	12-02-1997	PAGE
~, I	US52	5,719,396	Jack, et al.	02-17-1998	
N	US53	5,726,450	Peterson, et al.	03-10-1998	
N	US54	5,731,510	Jones, et al.	03-24-1998	
~	USS5	5,753,185	Mathews, et al.	05-19-1998	
w	US56	5,831,267	Jack, et al.	11-03-1998	

				FOREIG	N PATENT DOCU	MENTS		
Examiner Initials*		For	eign Patent D	ocument	Name of Patentee	Date of Publication of	Pages, Columns, Lines,	
		Cite No.1	Office ³	Number ⁴	Kind Code ⁵ (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
	F1							
	F2							
	F3						-0EI	
	F4						ロトしに	7
	F5						1.1	Enne
	F6						1111 7 7	200
	F7						. 18	26
	F8	1						ال
	F9	1					GHO	

Examiner Signature	c"	Date Considered	3/17/06	
-----------------------	----	--------------------	---------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark hee if English language Translation is attached.

	_
4	
٧,	



ſ			PAUL LEONARD GUENTHER, "Contributions to On-Road Remote Sensing of Automobile Exhaust," A Thesis	
	1	P19	Presented to the Faculty of Natural Sciences, Mathematics, and Engineering, University of Denver, June 1992, 95 pages	
	N	P20	DONALD H. STEDMAN, et al., "On-Road Remote Sensing of CO and HC Emissions in California," Prepared for Research Division, California Air Resources Board, Sacramento, CA, submitted by University of Denver Chemistry Department, February 1994, 136 pages	
	N	P21	*Unstaffed On-Road Emissions Measurement Systems Services,* Prepared by Parsons Engineering Science, Inc., Pasadena, California, September 1995	
لير	\sim	P22	"Proposal/Quote for Unstaffed On-Road Emissions Measurement Systems Services" in response to Phase IV - RFQ #94/95-003, prepared by Remote Sensing Technologies, Inc. delivered to Department of Consumer Affairs, Bureau of Automotive Repair, Sacramento, California, September 1, 1995	
79	157	P23	STEVEN H. CADLE, et al., "Measurement of Exhaust Particulate Matter Emissions from In-Use Light-Duty Motor Vehicles in the Denver, Colorado Area," Final Report, prepared for Coordinating Research Council, Atlanta, Georgia, 12/09/97, prepared by General Motors R&D Center, Michigan; 20 pages	
M 1		P24	STEVEN H. CADLE, et al., "Measurement of Exhaust Particulate Matter Emissions from In-Use Light-Duty Motor Vehicles in the Denver, Colorado Area," Final Report, prepared for Coordinating Research Council, Atlanta, Georgia, 3/24/98, "Appendix E. University of Denver Remote Sensing Observation of Smoking Vehicles," prepared by General Motors R&D Center, Michigan; 20 pages	
SM LI	ASTALL ST	P25	ROBERT D. STEPHENS, et al., "Remote Sensing of Carbon Monoxide Emissions from On-Road Vehicles," Environmental Science Department, General Motors Research Laboratories, Michigan for presentation to Air and Waste Management Association, NC, May 1, 1990, 46 pages	
	/	P26	*Description and Documentation for Interim Vehicle Clean Screening Credit Utility,* Draft Report, United States Environmental Protection Agency, May 1998, 40 pages JUL 1 2003	
	\mathcal{N}	P27	DAVID S. E. PETHERICK, "Ontario's Indoor, Controlled-Mode Remote Sensing I/M Prescreen Concept," Ministry of Transportation of Ontario, Copyright 1996 Society of Automotive Engineers, Inc., 9 pages)
	/	P28	P. A. WALSH, et et., Texas 1996 Remote Sensing Feasibility Study, Final Report, prepared for Texas Natural World Resource Conservation Commission, Austin, Texas, 8/29/97, prepared by Desert Research Institute, Energy and Environmental Engineering Center, Reno, Nevada, 9 pages	
	N	P29	"On Road Emissions Measurement System - Specifications," Bureau of Automotive Repair, August 30, 1999, Revision - J, 15 pages.	
	N	P30	CRAIG S. RENDAHL, "Further Analysis of Wisconsin's Remote Vehicle Emissions Sensing Feasibility Studies," "Quality Control Efforts of Remote Vehicle Emissions Sensing," and "Data Handling and Validation from Wisconsin's Remote Vehicle Emissions Sensing Studies," Presented at the Air & Waste Management Arnual Measurement of Toxics and Related Pollutants Conference, Research Triangle Park, North Carolina, 5/96, 34 pages.	
	N	P31	JAMES D. PETERSON, et al., "Find and Fix the Polluters", Chemtech, January 1992, Copyright 1992 American Chemical Society, 7 pages.	
	N	P32	RSD 1000 Operator's Manual (Preliminary), Remote Sensing Technologies, IFB No. 94019, June 1993, 66 pages.	
	ب	P33	RSD-1000 Remote Sensing Device Information Package to Mr. Wolf Klassen, Department of Natural Resources, Presented by Dennis L. Smith, February 24, 1993, 123 pages.	
	1	P34	ROBERT D. STEPHENS, et al., "An Experimental Evaluation of Remote Sensing-Based Hydrocarbon Measurements: A Comparison to FID Measurements", <u>Journal of the Air & Waste Management Association</u> , Volume 46, February 1996, pages 148-158.	
	~	P35	DONALD H. STEDMAN, "Automobile Carbon Monoxide Emission", Environmental Science & Technology, Volume 23, No. 2, 1989, pages 147-149.	
	2	P36	MASAYUKI ADACHI, et al., "Automotive Emission Analyses Using FTIR Spectrophotometer", Published by the Society of Automotive Engineers, SAE# 920723, pages 820-827.	
	~	P37	MICHAEL D. KOPLOW, et al., "Characterization of On-Road Vehicle NO Emissions by Means of a TILDAS Remote Sensing Instrument", Published by the Coordinating Research Council, Published for the 7th CRC On- Road Vehicle Emissions Workshop, March 11, 1997, pages 1-25.	
	N	P38	SCOTT E. MCLAREN, et al., "Comparison of an Open Path UV and FTIR Spectrophotometer", Published by the Air & Waste Management Association, Published for Presentation at the 85 th Annual Meeting & Exhibition, Kansas City, Missouri, June 21-26, 1992, pages 1-10.	
	~	P39	"Developing an Inspection/Maintenance Program for Alternatively-Fueled Vehicles", Third InterIm Report Submitted to the California Bureau of Automotive Repair, Submitted by Radian Corporation, April 20, 1993, 147 pages.	
	N	P40	IAIN FREDERICK MCVEY, "Development of a Remote Sensor for Mobile Source Nitric Oxide", A Thesis Presented to the Faculty of Natural Sciences, Mathematics, and Engineering, University of Denver, November 1992, 111 pages.	
:	~	P41	S. P. BEATON, et et., "Emission Characteristics of Mexico City Vehicles", <u>Journal of the Air & Weste Management Association</u> , Volume 42, No. 11, November 1992, pages 1424-1429.	
:	~	P42	DOUGLAS R. LAWSON, et al., "Emissions from In-Use Motor Vehicles in Los Angeles: A Pilot Study of Remote Sensing and the Inspection and Maintenance Program", Journal of the Air & Waste Management Association, Volume 40, No. 8, August 1990, pages 1096-1105.	
	N	P43	YI ZHANG, et al., "Enhancement of Remote Sensing for Mobile Source Nitric Oxide", <u>Journal of the Air & Waste Management Association</u> , Volume 46, January 1996, pages 25-29.	
	~	P44	DONALD H. STEDMAN, et al., "Evaluation of a Remote Sensor for Mobile Source CO Emissions", U.S. Environmental Protection Agency, CR-815778-01-0, Report No. EPA/600/4-90/032, January 1991, 90 pages.	





<i></i>	P45	JAMES BUTLER, et al., "Factors Affecting the NDIR Measurement of Exhaust Hydrocarbons", Published by the Coordinating Research Council, Published for the CRC 5th On-Road Vehicle Emissions Workshop, 1995, 18 pages.		ļ
*\\	P46	SCOTT E. MCLAREN, et al., "Flux Measurements Using Simultaneous Long Path Ultraviolet and Infrared Spectroscopy", Published by the Air & Waste Management Association, Published for Presentation at the 83 rd Annual Meeting & Exhibition, Pittsburgh, Pennsylvania, June 24-29, 1990, 7 pages.		
120	P47	GARY A. BISHOP, et al., "Infrared Emission and Remote Sensing", <u>Journal of the Air & Waste Management</u> <u>Association</u> , Volume 42, No. 5, May 1992, pages 695-697.		
The state of the s	P48	HAKAN AXELSSON, et al., "Measurement of Aromatic Hydrocarbons with the DOAS Technique", Applied Spectroscopy, Volume 49, No. 9, 1995, pages 1254-1260.		
N	P49	GARY A. BISHOP, et el., "Method Comparisons of Vehicle Emissions Measurements in the Fort McHenry and Tuscarora Mountain Tunnels", <u>Atmospheric Environment</u> , Volume 30, No. 12, 1996, pages 2307-2316.		
~	P50	DONALD H. STEDMAN, et al., "NOx Data by Remote Sensing", Published by the Coordinating Research Council, Published for the 5 th CRC On-Road Vehicle Emissions Workshop, April 3-5, 1995, 16 pages.		ŀ
N	P51	DONALD H. STEDMAN, et al., "On-Road Carbon Monoxide and Hydrocarbon Remote Sensing In the Chicago Area", Final Report Prepared by University of Denver Chemistry Department, Prepared for Illinois Department of Energy and Natural Resources, Office of Research and Planning, Illinois Contract AQ 40, Project 91/122, Report No. ILENR/RE-AQ-91/14, October 1991, pages 1-70.	7.2.17	/F
V	P52	GARY A. BISHOP, et al., *On-Road Carbon Monoxide Emission Measurement Comparisons for the 19884989 Colorado Oxy-Fuels Program*, <u>Environmental Science & Technology</u> , Volume 24, No. 6, 1990, pages 843-847.	9 hazi 1 1	ייי מחל
~	P53	DONALD H. STEDMAN, et al., "On-Road CO Remote Sensing in the Los Angeles Basin", Final Report Prepadd of for the Research Division, California Air Resources Board, Submitted by University of Denver Chemistry Department, August 1991, Contract No. A932-189, 70 pages.	IP.	3
~	P54	SCOTT MCLAREN, "Open Path Spectrometers for Atmospheric Monitoring", A Dissertation Presented to the Faculty of Natural Sciences, Mathematics and Engineering, November 1995, 170 pages.	<u> </u>	
2	P55	the Chicago Metropolitan Area: Siting and Issue Analysis*, Final Report Prepared by University of Denver Atmospheric Science Center, Prepared for Illinois Department of Energy and Natural Resources, Office of Research and Planning, Illinois Contract AQ 30, Project 90/009, Report No. ILENR/RE-AQ-91/15, October 1991, pages 1-65.		
	PETER JOHN POPP, "Remote Sensing of Nitric Oxide Emissions from Planes, Trains and Automobiles", A Dissertation Presented to the Faculty of Natural Sciences, Mathematics and Engineering, August 1999, 170			
N	P57	BRETT C. SINGER, et al., "Scaling of Infrared Remote Sensor Hydrocarbon Measurements for Motor Vehicle Emission Inventory Calculations", <u>Environmental Science & Technology</u> , Volume 32, No. 21, 1998, pages 3241- 3248.		
	P58	LUCIAN W. CHANEY, 'The Remote Measurement of Traffic Generated Carbon Monoxide", <u>Journal of the Air</u> Pollution Control Association, Volume 33, No. 3, March 1983, pages 220-222.		
~	JOSE LUIS JIMENEZ-PALACIOS, 'Understanding and Quantifying Motor Vehicle Emissions with Vehicle Specific Power and TILDAS Remote Sensing', A Dissertation Presented to the Department of Mechanical Engineering, February 1999, 360 pages.			
N	P60	"Vehicle Inspection Instrumentation", Published by the Lockheed Missiles and Space co., Inc., Report No. ARB-R-643-73-26, June 30, 1973, 99 pages.		
N	P61	JOHN E. SIGSBY, JR., et al., "Volatile Organic Compound Emissions from 46 In-Use Passenger Cars", <u>Environmental Science & Technology</u> , Volume 21, No. 5, 1987, pages 466-475.		
N	P62	YI ZHANG, et al., "Worldwide On-Road Vehicle Exhaust Emissions Study by Remote Sensing", Environmental Science & Technology, Volume 29, No. 9, 1995, pages 2286-2294.		
		P46 P47 P48 P49 P50 P51 P52 P53 P54 P55 P56 P56 P57 P58 P59 P60 P60	Coordinating Research Council, Published for the CRC S* On-Road Vehicle Emissions Workshop, 1995, 18 pages SCOTT E. MCLAREN, et al., "Flux Measurements Using Simultaneous Long Path Ultraviolet and Infrared Spectroscopy", Published by the Air & Waste Management Association, Published for Presentation at the 83* Annual Meeting & Exhibition, Pittishurgh, Pennsylvania, June 24-29, 1990, 7 pages. P47 GARY A. BISHOP, et al., "Infrared Emission and Remote Sensing", Journal of the Air & Waste Management Association, Volume 42, No. 5, May 1982, pages 695-697. HAKAN AXELSSON, et al., "Measurement of Aromatic Hydrocarbons with the DOAS Technique", Applied Specific Spe	Coordinating Research Council, Published for the CRC S* On-Road Vehicle Emissions Workshop, 1985, 16 pages. SCOTT E. MCLAREN, et al., "Flux Measurement Using Simultaneous Long Path Ultraviolat and Infarred Spectroscopy," Published by the Air & Waste Management Jasociation, Published for Presentation at the 83" Annual Meeting & Enhibition, Pittsburgh, Pennsylvania, June 24-29, 1980, 7 pages. PAT GARY A. BISHOP, et al., "Infarred Emission and Remote Sensing", Journal of the Air & Waste Management Association, Volume 42, No. 5, May 1982, pages 685-697. PAS GARY A. BISHOP, et al., "Measurement of Aromatic Hydrocarbons with the DOAS Technique", Applied Spectroscopy, Volume 49, No. 9, 1985, pages 1254-1250. PAS GARY A. BISHOP, et al., "Measurement of Aromatic Hydrocarbons with the DOAS Technique", Applied Spectroscopy, Volume 49, No. 9, 1985, pages 1254-1250. PAS DONALD H. STEDMAN et al., "NOX Data by Remote Sensing", Published by the Coordinating Research Council, Published for the 5" CRC On-Road Vehicle Emissions Workshop, April 3-5, 1985, 16 pages. DONALD H. STEDMAN et al., "On-Road Carbon Monoxide Emissions Remote Sensing in the Chicago Area," Final Report Prepared by University of Derwer Chemistry Department, Prepared for Illinois Department of Energy and Natural Resources, Office of Research and Planning, Illinois Contract AQ 40, Project 99/122, Report No. 18. EMPRIS-AG-9114, October 1991, pages 1-70. GARY A. BISHOP, et al., "On-Road Carbon Monoxide Emissions Measurement Comparisons for the 1986 B8S Colorado Oxy-Fuels Program", Environmental Science & Technology, Volume 24, No. 6, 1990, pages 843-847. PSO SCOTT MCLAREN, Open Path Spectrometers for Atmospheric Monitoring, A. Dissertation Presentation Presentation for the Research Distonic, California Affectuation Resources Monitoring Monoxide Emissions Control for Poliution Reduction in the Chicago Metopolision, California Affectuation Resources, Office of Report Presented for Illinois Contract AG 30, Project 99/100, Report No. 18. Internet of Present of

Examiner Signature	Date Considered	3/17/08

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through distation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant Is to place a check mark here if English language Translation is attached.